1				**Normal Background Statistics for Data Sets with Non-Detects**								
2			**User Selected Options**									
3			Date/Time of Computation	8/2/2013 11:24:43 AM								
4			From File	WorkSheet.xls								
5			Full Precision	OFF								
6			Confidence Coefficient	95%								
7			Coverage	95%								
8			rent or Future K Observations	1								
9												
10	**DDx**											
11												
12						**General Statistics**						
13					Total Number of Observations	44			Number of Distinct Observations	44		
14					Number of Detects	42			Number of Non-Detects	2		
15					Number of Distinct Detects	42			Number of Distinct Non-Detects	2		
16					Minimum Detect	0.461			Minimum Non-Detect	0.94		
17					Maximum Detect	3.41			Maximum Non-Detect	0.98		
18					Variance Detected	0.557			Percent Non-Detects	4.545%		
19					Mean Detected	1.965			SD Detected	0.746		
20					Mean of Detected Logged Data	0.585			SD of Detected Logged Data	0.462		
21												
22						**Critical Values for Background Threshold Values (BTVs)**							
23					Tolerance Factor K (For UTL)	2.091			d2max (for USL)	2.906		
24												
25						**Normal GOF Test on Detects Only**							
26					Shapiro Wilk Test Statistic	0.914			**Shapiro Wilk GOF Test**			
27					5% Shapiro Wilk Critical Value	0.942			Data Not Normal at 5% Significance Level			
28					Lilliefors Test Statistic	0.0965			**Lilliefors GOF Test**			
29					5% Lilliefors Critical Value	0.137			Detected Data appear Normal at 5% Significance Level			
30						**Detected Data appear Approximate Normal at 5% Significance Level**						
31												
32						**Kaplan Meier (KM) Background Statistics Assuming Normal Distribution**						
33					Mean	1.909			SD	0.766		
34					95% UTL95% Coverage	3.51			95% KM UPL (t)	3.21		
35					95% KM Chebyshev UPL	5.284			90% KM Percentile (z)	2.89		
36					95% KM Percentile (z)	3.168			99% KM Percentile (z)	3.69		
37					95% KM USL	4.134						
38												
39						**DL/2 Substitution Background Statistics Assuming Normal Distribution**						
40					Mean	1.897			SD	0.793		
41					95% UTL95% Coverage	3.555			95% UPL (t)	3.245		
42					90% Percentile (z)	2.913			95% Percentile (z)	3.201		
43					99% Percentile (z)	3.742			95% USL	4.202		
44						**DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons**						
45												
46						Note: The use of USL to estimate a BTV is recommended only when the data set represents a background						
47						data set free of outliers and consists of observations collected from clean unimpacted locations.						
48						The use of USL tends to provide a balance between false positives and false negatives provided the data						
49						represents a background data set and when many onsite observations need to be compared with the BTV.						
50												